

## ABSTRACT

The present invention provides a human antibody or an active-fragment thereof that specifically binds to human platelet membrane glycoprotein VI and does not induce a human platelet aggregation independently; a cell that produces the antibody or its active-fragment; a pharmaceutical composition that comprises the antibody or its active-fragment as an active ingredient, and so on. The above-mentioned cell can be obtained for example, as follows: a peripheral-blood-lymphocyte of the human that produces an autologous antibody to GPVI is activated by in vitro immunization under specific conditions; a hybridoma with mouse myeloma cell is prepared; and then the hybridoma that produces a monoclonal antibody, which has a binding capacity to GPVI and has an activity that suppresses collagen-mediated agglutinability of the human platelet is selected.